

WHAT IS CLAIMED IS:

1. A method of connecting a terminal with a wire comprising the steps of:

inserting a core of the wire into a tubular wire

5 connecting portion of the terminal; and

crimping the wire connecting portion in a radial direction of the wire so that the wire connecting portion is compressed in the radial direction and uniformly over a whole circumference of the wire.

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2. The method according to claim 1, wherein the wire connecting portion is compressed by dies in the radial direction over the whole circumference while rotating the dies by using a rotary swaging machine.

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3. The method according to claim 1, wherein

a protrusion is formed on an outer periphery of the wire connecting portion, and

during circumferential crimping of the wire

20 connecting portion, the protrusion is projected from an inner periphery of the wire connecting portion to bite the core.

4. A structure for connecting a terminal with a wire,

25 wherein a core of the wire is inserted into a tubular wire

connecting portion of the terminal, and the wire connecting portion is crimped in a radial direction of the wire so that the wire connecting portion is compressed in the radial direction and uniformly over a whole  
5 circumference of the wire and an outer periphery of a compressed part of the wire connecting portion has a true circular section shape.

5. The structure according to claim 4, wherein  
10 a protrusion is formed on an outer periphery of the wire connecting portion, and  
the protrusion is projected from an inner periphery of the wire connecting portion to bite the core after the wire connecting portion is crimped.

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6. The structure according to claim 5, wherein the protrusion is an annular ridge or at least one projection.

7. A terminal comprising:

20 a wire connecting portion including a wire insertion hole, the wire connecting portion being to be subjected to a circumferential crimping process; and

a contact protrusion, for entering a core of a wire, elongating in a longitudinal direction of a wire and  
25 disposed in the wire insertion hole.

8. The terminal according to claim 7, wherein the contact protrusion is positioned at a center of the wire insertion hole.

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9. The terminal according to claim 7, wherein the contact protrusion has a columnar shape.

10. The terminal according to claim 7, wherein the contact protrusion has an initial length which is substantially one third of a length of the wire insertion hole.

11. A method of connecting a core of a wire with a terminal including a wire connecting portion including a wire insertion hole, and a contact protrusion elongating in a longitudinal direction of a wire and disposed in the wire insertion hole, the method comprising the steps of:

inserting the core into the wire insertion hole so that the contact protrusion enters the core; and

crimping the wire connecting portion radially and uniformly over a whole circumference at the end by a circumferential crimping unit.

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